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[1. CBD14-101: Innovative concept for detection and identification of biological toxins](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Design, develop and demonstrate concepts that will provide ability to detect and discriminate among various biological toxins that are identified threat agents. Particular emphasis is on disposable, low cost devices suited to in-field application. The solution should overcome limitations of present immunoassay-based detection schemes. DESCRIPTION: The concept is intended to provide ...

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[2. CBD14-102: Deployable graphene-based chemical/biological sensors](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Design and develop a deployable radio frequency (RF) based broadband impedance chemical/biological detection system suitable for field-deployable networks, UAV deployment applications, and stand-alone chemical/biological point detection. DESCRIPTION: Chemical-warfare (CW) agents, Biological Warfare (BW) agents, explosive materials, and toxic industrial chemicals/materials (TIC/TIM ...

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[3. CBD14-103: Micro-electric Technology for Respiratory Protection Systems](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Design and develop micro-electric devices suitable for integration into a face or helmet mounted respiratory protective system. DESCRIPTION: Military respirators used for protection against chemical, biological, radiological, nuclear (CBRN) threat agents currently have no means to reduce heat and moisture burden associated with prolonged respirator wear. Traditional powered air-purif ...

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[4. CBD14-104: DNA Origami-based Bio-scavengers for Nerve Agent Sequestration](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Design and develop DNA origami-based bio-scavengers with high affinity for organophosphorus compounds and demonstrate these systems can be optimized for use in the molecular sequestration of nerve agents. DESCRIPTION: The DOD has the need for a universal organophosphorus (OP) scavenger that will protect against multiple OP compounds, including all existing nerve agents. The ideal sc ...

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[5. CBD14-105: High-affinity monoclonal antibodies that target Burkholderia Polysaccharide](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: This topic solicits the development of serotype-specific, high-affinity monoclonal antibodies that target *Burkholderia mallei* and *Burkholderia pseudomallei* and/or O-polysaccharide and capsular polysaccharide. DESCRIPTION: *Burkholderia mallei*, causative agent of glanders, and *Burkholderia pseudomallei*, causative agent of melioidosis, are recognized as potential biological warfare thre ...

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